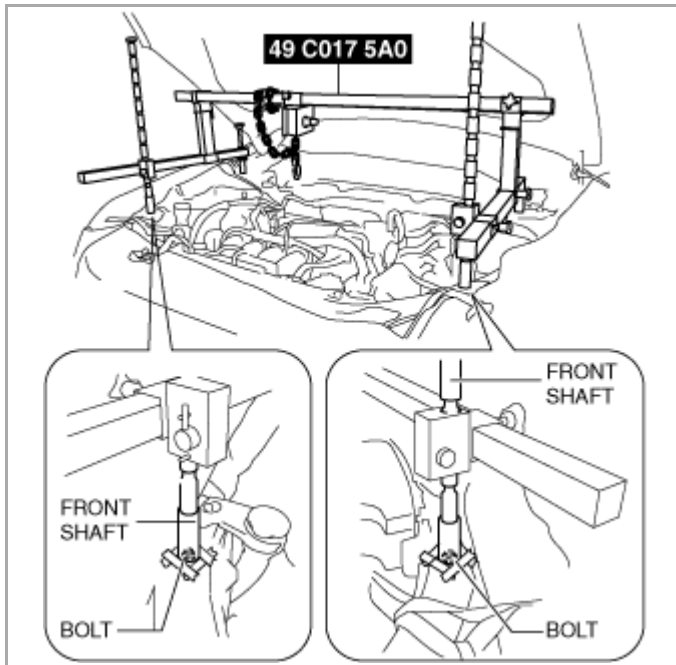


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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

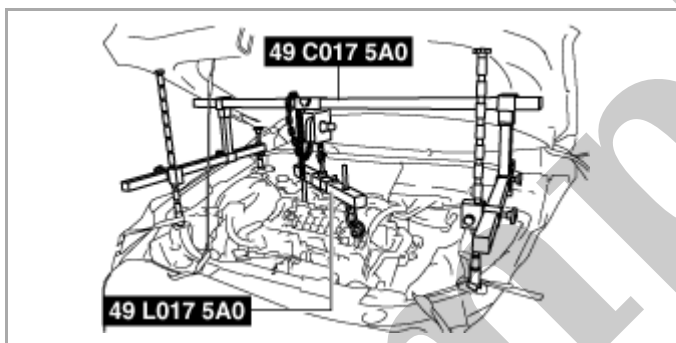
2013 MAZDA MX-5 / Miata OEM Service and Repair Workshop Manual

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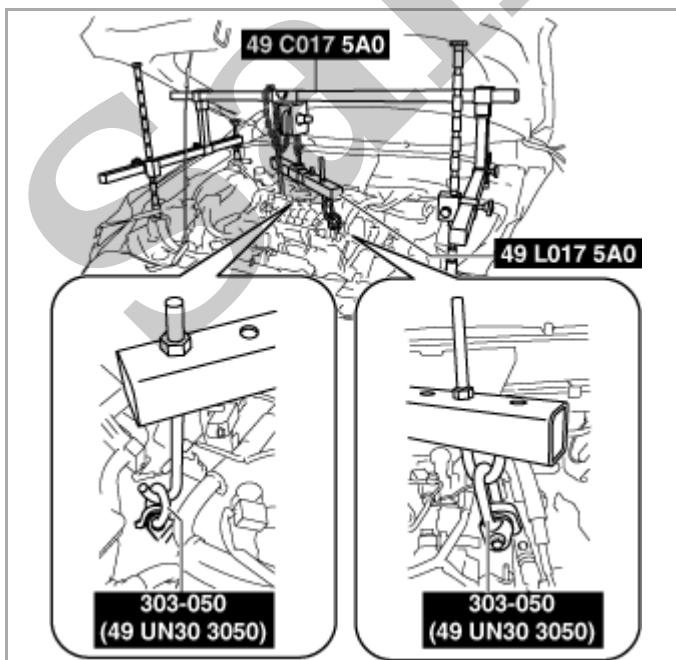
ac5wzw00004363

(8) Install the SST (49 L017 5A0) to the SST (49 C017 5A0) as shown in the figure.



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(9) Install the SST (49 L017 5A0) to the SST (49 UN30 3050) with the hook of the SST (49 L017 5A0) facing outward.

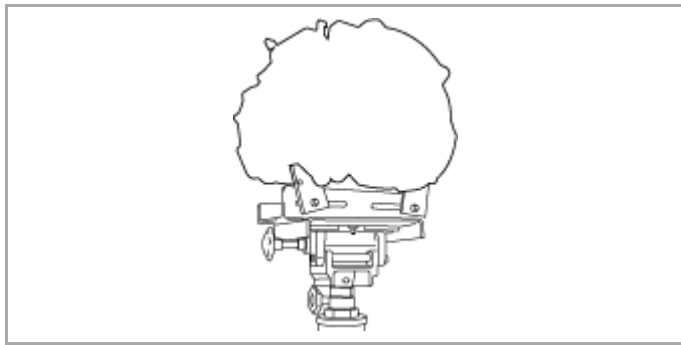


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(10) Adjust the height of the left and right side bars so that they are leveled, then tighten each part of the SST.

(11) Apply tension to the chain to secure the engine.

40. Remove in the order shown in the figure.



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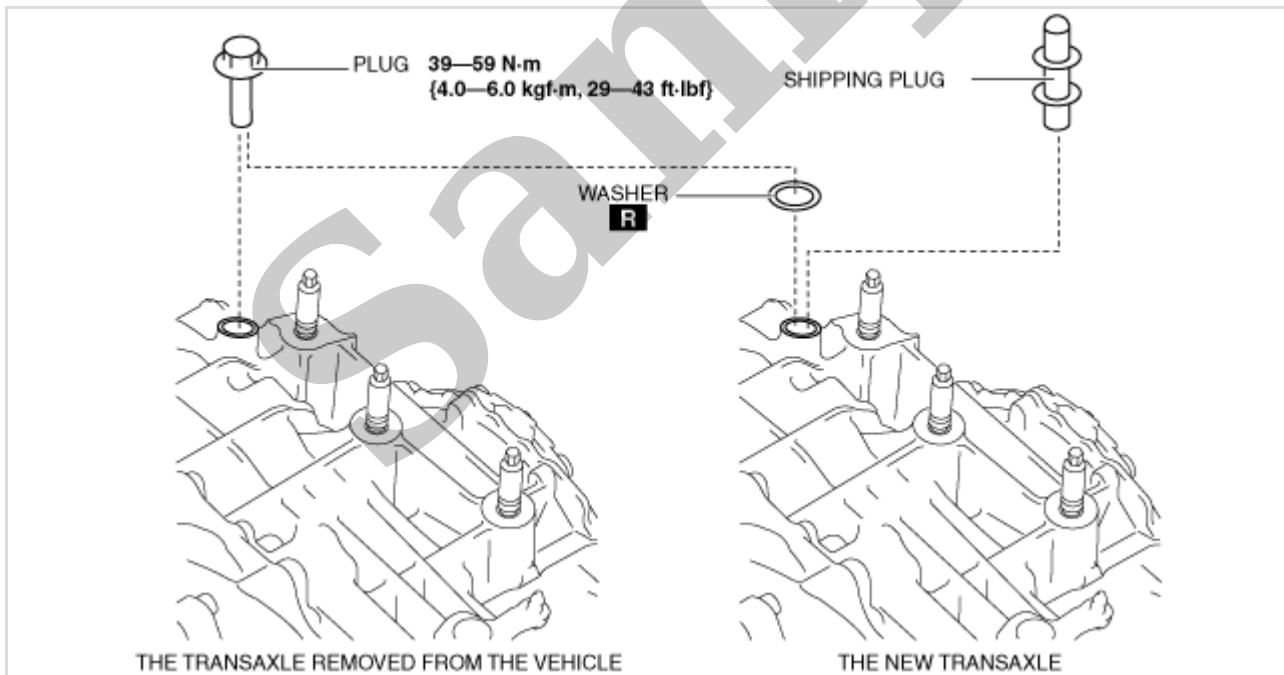
3. Remove the transaxle mounting bolts (lower side).

4. Remove the transaxle.

Installation

1. If the transaxle is replaced with a new one, perform the following procedure.

- (1) Remove the shipping plug from the new transaxle.
- (2) Remove the plug from the transaxle removed from the vehicle.
- (3) Install the plug and washer that were removed to the new transaxle.



ac9uuw00011693

Caution

- Verify that the torque converter stud bolts are inserted into the drive plate bolt holes, and install the transaxle installation bolts. Otherwise, the drive plate could be damaged.

2. Verify that the torque converter stud bolts are inserted into the drive plate bolt holes from the starter installation hole.

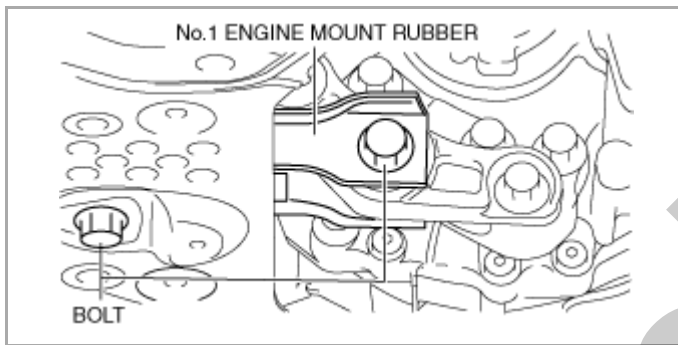
Tightening torque

131–153 N·m {14–15 kgf·m, 97–112 ft·lbf}

8. Install the transfer. (See [TRANSFER REMOVAL/INSTALLATION \[GW6AX-EL \(SKYACTIV-D 2.2\)\]](#).)

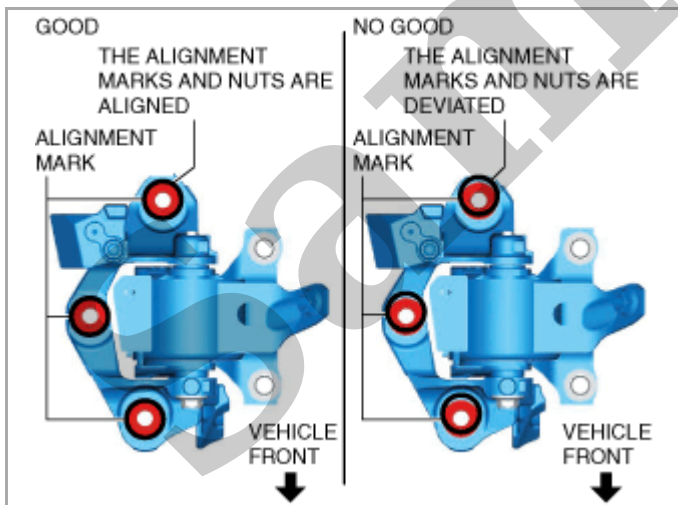
9. Install the front crossmember component and No.1 engine mount rubber as a single unit. (See [FRONT CROSSMEMBER REMOVAL/INSTALLATION](#).)

10. Temporarily tighten the No.1 engine mount rubber installation bolts.



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11. Align the positions of the No.4 engine mount bracket installation nuts with the No.4 engine mount bracket.



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12. Tighten the No.4 engine mount bracket installation nuts and bolt in the order shown in the figure.

22.Connect the front stabilizer control links to the front stabilizer. (See [FRONT STABILIZER REMOVAL/INSTALLATION](#).)

23.Connect the front lower arms to the steering knuckles. (See [FRONT LOWER ARM REMOVAL/INSTALLATION](#).)

24.Connect the tie-rod ends to the steering knuckles. (See [STEERING GEAR AND LINKAGE REMOVAL/INSTALLATION](#).)

25.Connect the clips securing the brake hose to the front shock absorbers. (See [FRONT BRAKE HOSE REMOVAL/INSTALLATION \[WITH 2-PISTON FLOATING CALIPER\]](#).)

26.Connect the front ABS wheel-speed sensors to the steering knuckles. (See [FRONT ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION](#).)

27.Connect the water hose to the oil cooler. (Automatic transaxle replacement) (See [OIL COOLER REMOVAL/INSTALLATION \[GW6A-EL, GW6AX-EL \(SKYACTIV-D 2.2\)\]](#).)

28.Connect the oil cooler to the transaxle with the hose connected. (Except automatic transaxle replacement) (See [OIL COOLER REMOVAL/INSTALLATION \[GW6A-EL, GW6AX-EL \(SKYACTIV-D 2.2\)\]](#).)

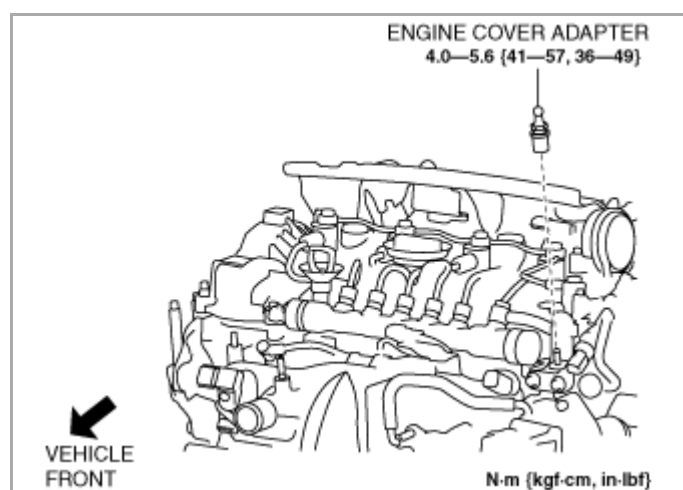
29.Install the front under cover No.1. (See [FRONT UNDER COVER No.1 REMOVAL/INSTALLATION](#).)

30.Install the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION](#).)

31.Install the front tires. (See [WHEEL AND TIRE REMOVAL/INSTALLATION](#).)

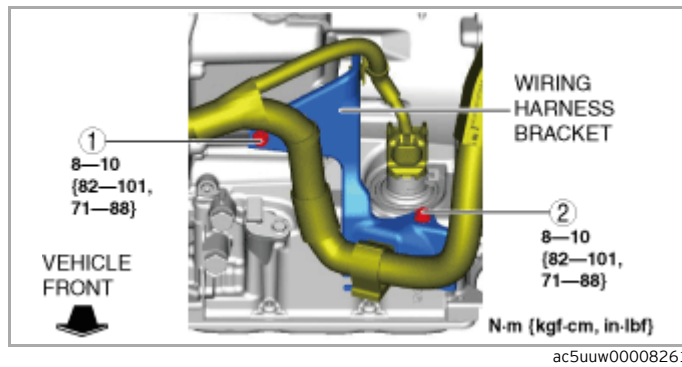
32.Install the insulator. (See [TIMING CHAIN REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

33.Install the engine cover adapter.

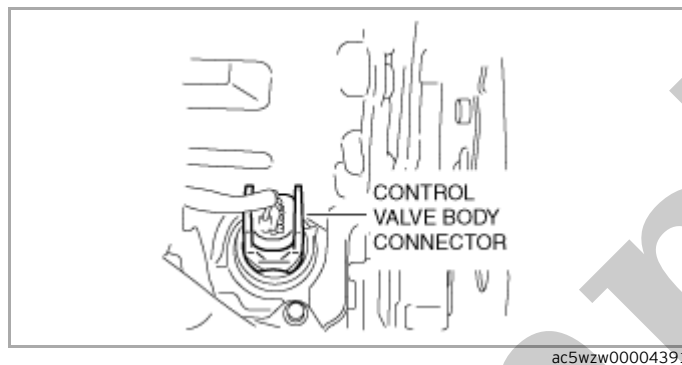


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44.Tighten the wiring harness bracket installation bolts in the order shown in the figure.



45.Connect the control valve body connector.



Caution

- Make sure that your hand does not touch the terminal as the connector terminal could be damaged.
- Verify that there is no fluid or foreign matter adhering to the connector before connecting the connector.
- Insert the connector straight as the connector terminal could be damaged.
- Rotate the connector lever until a click is heard.

46.Install the splash shield. (See [SPLASH SHIELD REMOVAL/INSTALLATION](#).)

47.Install the battery and battery tray. (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

48.Install the following parts as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

- Air cleaner cover
- Air cleaner element
- Fresh-air duct
- Air cleaner case
- Air hose

49.Install the air cleaner component. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

50.Connect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION](#).)

SELECTOR LEVER INSPECTION

SM2898480

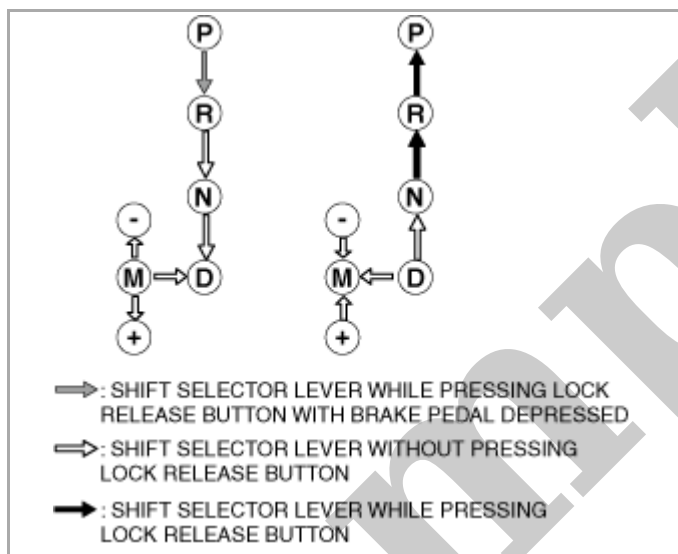
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1. Switch the ignition ON (engine off or on).

2. Perform the following procedures to inspect the selector lever.

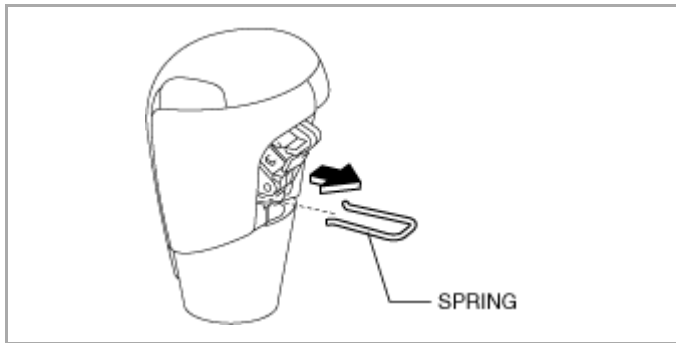
- If there is any malfunction, adjust the selector cable. (See [SELECTOR CABLE ADJUSTMENT](#).)

(1) Verify that the selector lever can be operated as shown in the figure.



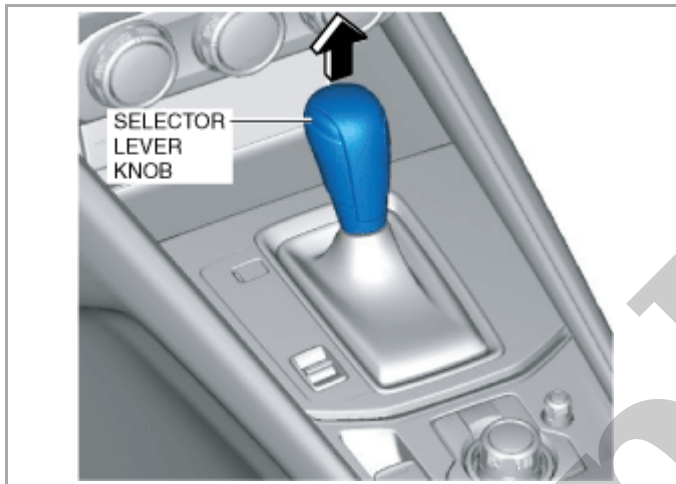
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(2) Verify that the selector lever can be operated smoothly and moderately.



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(4) Remove the selector lever knob.

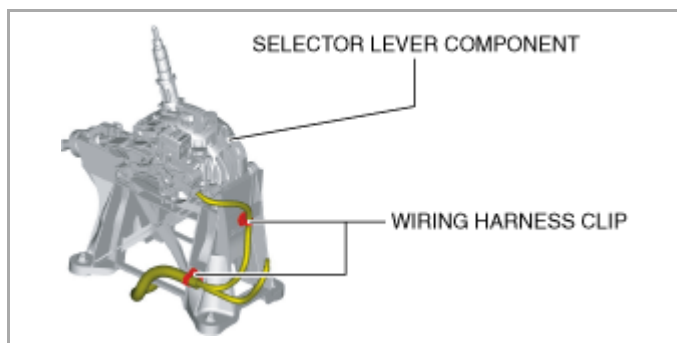


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3. Remove the following parts.

- (1) Console side panel (See [CONSOLE SIDE PANEL REMOVAL/INSTALLATION.](#))
- (2) Switch panel (See [SWITCH PANEL REMOVAL/INSTALLATION.](#))
- (3) Cup holder (See [CUP HOLDER REMOVAL/INSTALLATION.](#))
- (4) Shift panel (See [SHIFT PANEL REMOVAL/INSTALLATION.](#))
- (5) Front console box (See [FRONT CONSOLE BOX REMOVAL/INSTALLATION.](#))
- (6) Side wall (See [SIDE WALL REMOVAL/INSTALLATION.](#))
- (7) Rear console (See [REAR CONSOLE REMOVAL/INSTALLATION.](#))

4. Disconnect the wiring harness clip from the selector lever component.



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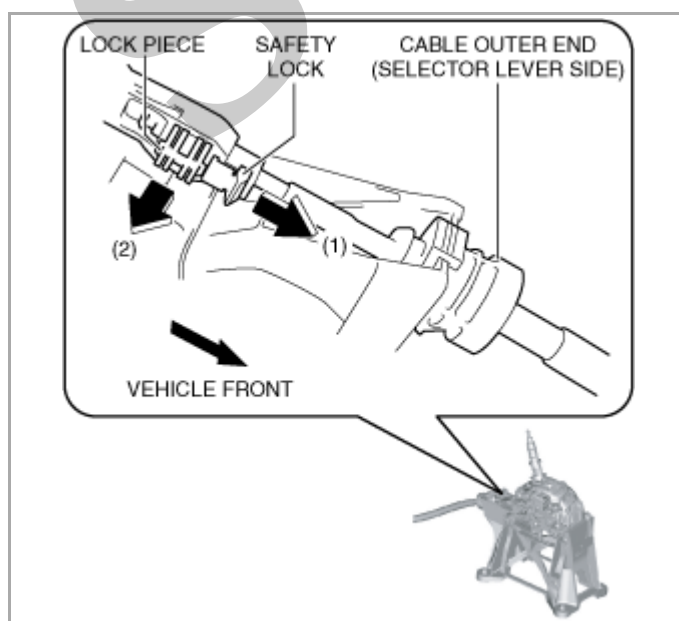
5. Disconnect the selector lever component connector.

SELECTOR CABLE ADJUSTMENT

SM2898484

id05180029780

1. Release the electric parking brake.
2. Set the wheel blocks on both the front and rear wheels.
3. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
4. Remove the console side panel. (See [CONSOLE SIDE PANEL REMOVAL/INSTALLATION.](#))
5. Remove the switch panel. (See [SWITCH PANEL REMOVAL/INSTALLATION.](#))
6. Remove the selector lever knob. (See [SELECTOR LEVER COMPONENT REMOVAL/INSTALLATION.](#))
7. Remove the shift panel. (See [SHIFT PANEL REMOVAL/INSTALLATION.](#))
8. Shift the selector lever to the P position.
9. Pull out the safety lock in the direction of the arrow (1) shown in the figure, pull out the lock piece in the direction of the arrow (2) shown in the figure, and release the lock.



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SELECTOR CABLE REMOVAL/INSTALLATION

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1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))

2. Perform the following procedure to remove the selector cable (transaxle side).

(1) Remove the following parts as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G \(WITHOUT EGR COOLER\)\]](#).) (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G \(WITH EGR COOLER\)\]](#).) (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).) (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

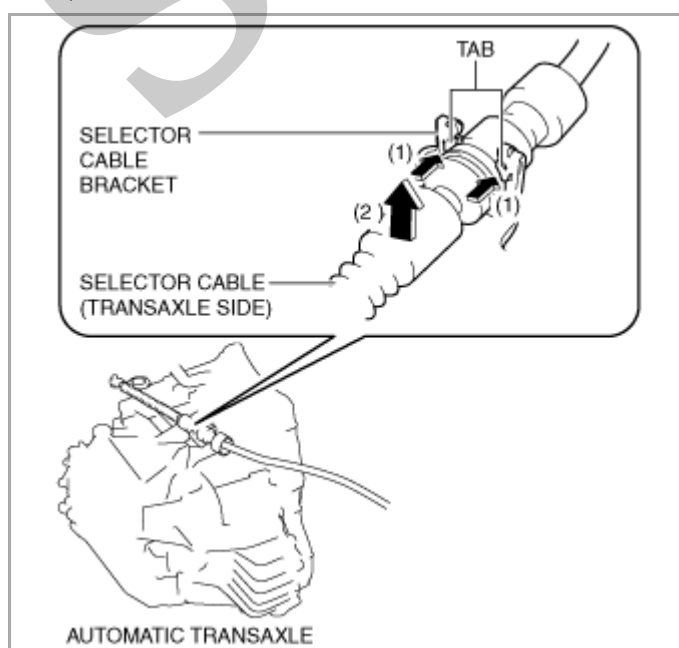
- Air cleaner cover
- Air cleaner element
- Fresh-air duct
- Air cleaner case
- Air hose
- Resonance chamber (SKYACTIV-G 2.5)

(2) Remove the battery. (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

(3) Remove the PCM component. (FW6A-EL, FW6AX-EL) (See [PCM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [PCM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)

(4) Remove the battery tray. (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

(5) While pressing the selector cable bracket tab in the direction of the arrow (1) shown in the figure, lift up the cable outer end (transaxle side) in the direction of the arrow (2) shown in the figure to detach the selector cable bracket tab from the cable outer end (transaxle side).



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